## What Is Claimed Is:

- 1. An isolated nucleic acid molecule comprising a polynucleotide having a nucleotide sequence at least 95% identical to a sequence selected from the group consisting of:
- (a) a nucleotide sequence encoding a polypeptide comprising amino acids from about 1 to about 242 in SEQ ID NO:2;
- a nucleotide sequence encoding a polypeptide comprising amino acids from about 2 to about 242 in SEQ ID NO:2;
- (c) a nucleotide sequence encoding a polypeptide comprising amino acids from about 15 to about 36 in SEQ ID NO:2;
- (d) a nucleotide sequence encoding a polypeptide comprising amino acids from about 42 to about 62 in SEQ ID NO:2;
- (e) a nucleatide sequence encoding a polypeptide comprising amino acids from about 75 to about 95 in SEQ ID NO:2;
- (f) a nucleotide sequence encoding a polypeptide comprising amino acids from about 219 to about 240 in SEQ ID NO:2;
- (g) a nucleotide sequence encoding a polypeptide comprising amino acids from about 96 to about 218 in SEQ ID NO:2;
- (h) a nucleotide sequence encoding the ET2 receptor subunit with all or part of one or more of the transmembrane domains deleted; and
- (i) a nucleotide sequence complementary to any of the nucleotide sequences in (a), (b), (c), (d), (e), (f), (g), or (h).
- 2. An isolated nucleic acid molecule comprising a polynucleotide which hybridizes under stringent hybridization conditions to a polynucleotide having a nucleotide sequence identical to a nucleotide sequence in (a), (b), (c), (d), (e), (f), (g), (h), or (i) of claim 1 wherein said polynucleotide which hybridizes does not hybridize under stringent hybridization conditions to a polynucleotide having a nucleotide sequence consisting of only A residues or of only T residues.

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SECTION 15

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- 3. An isolated nucleic acid molecule comprising a polynucleotide having a sequence at least 95% identical to a sequence selected from the group consisting of:
- (a) the nucleotide sequence of a fragment of the sequence shown in SEQ ID NO:1, wherein said fragment comprises at least 20 contiguous nucleotides of SEQ ID NO:1, provided that said nucleotide sequence is not HUKAU66R (SEQ ID NO:43) and HPLBB96F (SEQ ID NO:44), or any subfragment thereof; and
- (b) a nucleotide sequence complementary to a nucleotide sequence in (a).
- 4. The nucleotide sequence of a fragment of claim 3, wherein said fragment comprises at least 50 contiguous nucleotides of SEQ ID NO:1.
- 5. A method for making a recombinant vector comprising inserting an isolated nucleic acid molecule of claim 1 into a vector.
  - 6. A recombinant vector produced by the method of claim 5.
- 7. A method of making a recombinant host cell comprising introducing the recombinant vector of claim 6 into a host cell.
  - 8. A recombinant host cell produced by the method of claim 7.
- 9. A recombinant method for producing a polypeptide, comprising culturing the recombinant host cell of claim 8 under conditions such that said polypeptide is expressed and recovering said polypeptide.
- 10. An isolated polypeptide having an amino acid sequence at least 95% identical to a sequence selected from the group consisting of:

- (a) amino acids from about 1 to about 242 in SEQ ID NO:2;
- (b) amino acids from about 2 to about 242 in SEQ ID NO:2;
- (c) amino acids from about 15 to about 36 in SEQ ID NO:2;
- (d) amino acids from about 42 to about 62 in SEQ ID NO:2;
- (e) amino acids from about 75 to about 95 in SEQ ID NO:2;
- (f) amino acids from about 219 to about 240 in SEQ ID NO:2;
- (g) / amino acids from about 96 to about 218 in SEQ ID NO:2;
- (h) the amino acid sequence of the ET2 polypeptide with all or part of one or more of the transmembrane domains deleted; and
- (i) the amino acid sequence of an epitope-bearing portion of any one of the polypeptides of (a), (b), (c), (d), (e), (f), (g), or (h).
- 11. An isolated antibody that binds specifically to a polypeptide of claim 10.
- 12. An isolated nucleic acid molecule comprising a polynucleotide encoding an ET2 polyneptide wherein, except for at least one conservative amino acid substitution, said polypeptide has a sequence selected from the group consisting of:
- (a) a nucleotide sequence encoding a polypeptide comprising amino acids from about 1 to about 242 in SEQ ID NO:2;
- (b) a nucleotide sequence encoding a polypeptide comprising amino acids from about 2 to about 242 in SEQ ID NO:2;
- (c) a nucleotide sequence encoding a polypeptide comprising amino acids from about 15 to about 36 in SEQ ID NQ:2;
- (d) a nucleotide sequence encoding a polypeptide comprising amino acids from about 42 to about 62 in SEQ ID NO:2;
- (e) a nucleotide sequence encoding a polypeptide comprising amino acids from about 75 to about 95 in SEQ ID NO:2;

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- (f) a nucleotide sequence encoding a polypeptide comprising amino acids from about 219 to about 240 in SEQ ID NO:2;
- (g) a nucleotide sequence encoding a polypeptide comprising amino acids from about 96 to about 218 in SEQ ID NO:2;
- (h) a nucleotide sequence encoding the ET2 receptor subunit with all or part of one or more of the transmembrane domains deleted; and
- (i) a nucleotide sequence complementary to any of the nucleotide sequences in (a), (b), (c), (d), (e), (f), (g), or (h).
- 13. An isolated polypeptide wherein, except for at least one conservative amino acid substitution, said polypeptide has a sequence selected from the group consisting of:
  - (a) aming acids from about 1 to about 242 in SEQ ID NO:2;
  - (b) amino acids from about 2 to about 242 in SEQ ID NO:2;
  - (c) amino acids from about 15 to about 36 in SEQ ID NO:2;
  - (d) amino acids from about 42 to about 62 in SEQ ID NO:2;
  - (e) amino acids from about 75 to about 95 in SEQ ID NO:2;
  - (f) amino acids from about 219 to about 240 in SEQ ID NO:2;
  - (g) amino acids from about 96 to about 218 in SEQ ID NO:2;
- (h) the amino acid sequence of the ET2 polypeptide with all or part of one or more of the transmembrane domains deleted; and
- (i) the amino acid sequence of an epitope-bearing portion of any one of the polypeptides of (a), (b), (c), (d), (e), (f), (g), or (h).
- 14. An isolated nucleic acid molecule comprising a polynucleotide having a nucleotide sequence at least 95% identical to a sequence selected from the group consisting of:
- (a) a nucleotide sequence encoding a polypeptide comprising amino acids from about -18 to about 488 in SEQ ID NO:42;

- (b) a nucleotide sequence encoding a polypeptide comprising amino acids from about -17 to about 488 in SEQ ID NO:42;
- (c) a nucleotide sequence encoding a polypeptide comprising amino acids from about 1 to about 488 in SEQ ID NO:42;
- (d) a nucleotide sequence encoding a polypeptide comprising amino acids from about 1 to about 260 in SEQ ID NO:42;
- (e) a nucleotide sequence encoding the GABRE receptor subunit with all or part of one or more of the transmembrane domains deleted;
- a nucleotide sequence encoding a polypeptide having the amino acid sequence encoded by the cDNA clone contained in ATCC Deposit No. 209642
- (g) a nucleotide sequence encoding the mature GABRE polypeptide having the amino acid sequence encoded by the cDNA clone contained in ATCC Deposit No. 209642; and
- (h) a nucleotide sequence complementary to any of the nucleotide sequences in (a), (b), (c), (d), (e), (f), or (g).
- 15. An isolated nucleic axid projecule comprising a polynucleotide which hybridizes under stringent hybridization conditions to a polynucleotide having a nucleotide sequence identical to a nucleotide sequence in (a), (b), (c), (d), (e), (f), (g), or (h) of claim 14 wherein said polynucleotide which hybridizes does not hybridize under stringent hybridization conditions to a polynucleotide having a nucleotide sequence consisting of only A residues or of only T residues.
- 16. An isolated nucleic acid molecule comprising a polynucleotide having a sequence at least 95% identical to a sequence selected from the group consisting of:
- (a) the nucleotide sequence of a fragment of the sequence shown in SEQ ID NO:41, wherein said fragment comprises at least 20 contiguous nucleotides of SEQ ID NO:41, provided that said nucleotide sequence is not

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NO:42;

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HUKAU66R (SEQ ID NO:43) and HPLBB96F (SEQ ID NO:44), or any subfragment thereof; and

- (b) a nucleotide sequence complementary to a nucleotide sequence in (a).
- 17. The nucleotide sequence of a fragment of claim 16, wherein said fragment comprises at least 50 contiguous nucleotides of SEQ ID NO:41.
- 18. A method for making a recombinant vector comprising inserting an isolated nucleic acid molecule of claim 14 into a vector.
  - 19. A recombinant vector produced by the method of claim 18.
- 20. A method of making a recombinant host cell comprising introducing the recombinant vector of claim 19 into a host cell.
  - 21. A recombinant host cell produced by the method of claim 20.
- 22. A recombinant method for producing a polypeptide, comprising culturing the recombinant host cell of claim 21 under conditions such that said polypeptide is expressed and recovering said polypeptide.
- An isolated polypeptide having an amino acid sequence at least 95% identical to a sequence selected from the group consisting of:
- (a) amino acids from about -18 to about 488 in SEQ ID NO:42;
  - (b) amino acids from about -17 to about 488 in SEQ ID
    - (c) amino acids from about 1 to about 488 in SEQ ID NO:42
    - (d) amino acids from about 1 to about 260 in SEQ ID NO:42;

- (e) the amino acid sequence of the GABRE polypeptide with all or part of one or more of the transmembrane domains deleted; and
- (f) the amino acid sequence of an epitope-bearing portion of any one of the polypeptides of (a), (b), (c), (d), or (e).
- 24. An isolated antibody that binds specifically to a polypeptide of claim 23.
- An isolated nucleic acid molecule comprising a polynucleotide encoding a GABRE polypeptide wherein, except for at least one conservative amino acid substitution, said polypeptide has a sequence selected from the group consisting of:
- (a) a nucleotide sequence encoding a polypeptide comprising amino acids from about -18 to about 488 in SEQ ID NO:42;
- (b) a nucleotide sequence encoding a polypeptide comprising amino acids from about -17 to about 488 in SEQ ID NO:42;
- (c) a nucleotide sequence encoding a polypeptide comprising amino acids from about 1 to about 488 in SEQ ID NO:42;
- (d) a nucleotide sequence encoding a polypeptide comprising amino acids from about 1 to about 260 in SEQ ID NO:43;
- (e) a nucleotide sequence encoding the GABRE receptor subunit with all or part of one or more of the transmembrane domains deleted;
- (f) a nucleotide sequence encoding a polypeptide having the amino acid sequence encoded by the cDNA clone contained in ATCC Deposit No. 209642;
- (g) a nucleotide sequence encoding the mature GABRE polypeptide having the amino acid sequence encoded by the cDNA clone contained in ATCC Deposit No. 209642; and
- (h) a nucleotide sequence complementary to any of the nucleotide sequences in (a), (b), (c), (d), (e), (f), or (g).